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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Roschke *et al.*

Appl. No. 10/067,800

Filed: February 8, 2002

For: **Human G-Protein Chemokine  
Receptor (CCR5) HDGNR10**

Confirmation No. 8493

Art Unit: 1642

Examiner: *To be assigned*

Atty. Docket: 1488.115000L/EKS/HCC

**Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

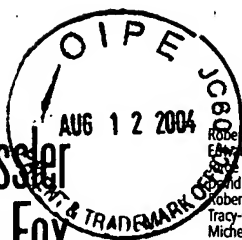
Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents **AE1**, **AI2**, **AJ2** and **AB3-AJ3** are included. Copies of all other documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/779,880, Rosen *et al.*, filed February 9, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

U.S. Patent Application No. 09/195,662, Li *et al.*, filed November 18, 1998, now U.S. Published Patent Application No. 2002/0076745, published June 20, 2002, and submitted herewith as document **AC3**;

U.S. Patent Application No. 10/232,686, Li *et al.*, filed September 3, 2002, now U.S. Published Patent Application No. 2003/0023044, published January 30, 2003, and submitted herewith as document **AE3**; and



Robert Greene Sterne  
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August 12, 2004

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Art Unit 1642**  
**Hand Carry**

Re: U.S. Utility Patent Application  
Application No. 10/067,800; Filed: February 8, 2002  
For: **Human G-Protein Chemokine Receptor (CCR5) HDG NR10**  
Inventors: Roschke *et al.*  
Our Ref: 1488.115000I/EKS/HCC

Sir:

Transmitted herewith for appropriate action are the following documents:

1. SKGF Cover Letter;
2. Information Disclosure Statement;
3. Form PTO-1449 citing 72 documents;
4. A copy of cited documents AE1, AI2, AJ2, AB3, AC3, AD3, AE3, AF3, AG3, AH3, AI3, and AJ3;
5. First Supplemental Information Disclosure Statement;
6. Form PTO-1449 citing 141 documents;
7. A copy of cited documents AT25, AR26, AS27, and AT27;
8. Second Supplemental Information Disclosure Statement;
9. Form PTO-1449 citing 10 documents;
10. A copy of cited documents AT31, AR32, and AS32;
11. Third Supplemental Information Disclosure Statement;

Commissioner for Patents  
August 12, 2004  
Page 2

12. Form PTO-1449 citing 10 documents; and
13. A copy of cited documents AM20, AN20, AO20, AT32, AR33, AS33, AT33, AR34, AS34, and AT34.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Andrea Jo Kamage*  
*for # 43,703*

Helene C. Carlson  
Agent for Applicants  
Registration No. 47,473

EKS/HCC/eaf  
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Roschke *et al.*

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U.S. Patent Application No. 10/135,839, Rosen *et al.*, filed May 1, 2002, now U.S. Published Patent Application No. 2003/0166024, published September 4, 2003, and submitted herewith as document **AF3**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Roschke *et al.*  
Appl. No. 10/067,800

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.115000I/EKS/HCC	APPLICATION NO. 10/067,800
	APPLICANT Roschke et al.	
	FILING DATE February 8, 2002	GROUP 1642

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5314992	05/24/1994	Guyre et al.			11/25/1991
	AB1	5440021	08/08/1995	Chuntharapai et al.			02/25/1994
	AC1	5652133	07/29/1997	Murphy			01/28/1993
	AD1	5707815	01/13/1998	Charo et al.			05/25/1995
	AE1	5776729	07/07/1998	Soppet et al.			06/05/1995
	AF1	5798206	08/25/1998	Neurath et al.			01/10/1997
	AG1	5817310	10/06/1998	Ramakrishnan et al.			06/10/1994
	AH1	5912176	06/15/1999	Wang			06/02/1997
	AI1	5919776	07/06/1999	Hagmann et al.			12/18/1997
	AJ1	5928881	07/27/1999	Barnette et al.			07/11/1997
	AK1	5939538	08/17/1999	Leavitt et al.			12/19/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	CA 2,146,328	05/26/1994	Canada			Yes No
	AM1	CA 2,128,208	06/09/1994	Canada			Yes No
	AN1	WO 95/19436	07/20/1995	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>1</u>	Charo, I.F., et al., "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," <i>Proc. Natl. Acad. Sci. USA</i> 91:2752-2756, National Academy of Science (March 1994)
	AS	<u>1</u>	Eva, C., et al., "Molecular cloning of a novel G protein-coupled receptor that may belong to the neuropeptide receptor family," <i>FEBS Letters</i> 271:81-84, Elsevier Science B.V. (1990)
	AT	<u>1</u>	Gao, J.-L., et al., "Structure and Functional Expression of the Human Macrophage Inflammatory Protein 1 $\alpha$ /RANTES Receptor," <i>J. Exp. Med.</i> 117:1421-1427, Rockefeller University Press (1993)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1488.115000I/EKS/HCCAPPLICATION NO.  
10/067,800APPLICANT  
Roschke et al.FILING DATE  
February 8, 2002GROUP  
1642**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2	5939320	08/17/1999	Littman et al.			06/19/1996
	AB2	5962462	10/05/1999	Mills et al.			12/12/1997
	AC2	5961976	10/05/1999	Wang			02/28/1997
	AD2	5994515	11/30/1999	Hoxie			06/25/1997
	AE2	6013644	01/11/2000	Mills et al.			12/12/1997
	AF2	6025154	02/15/2000	Li et al.			06/06/1995
	AG2	6057102	05/02/2000	Landau et al.			08/08/1997
	AH2	6132987	10/17/2000	Charo et al.			05/25/1995
	AI2	6153431	11/28/2000	Beretta et al.			05/28/1998
	AJ2	6258527	07/10/2001	Littman et al.			05/21/1997
	AK2	6265184	07/24/2001	Gray et al.			12/20/1995

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	2	George, D.G., et al., "Chapter 12. Current Methods in Sequence Comparison and Analysis," in <i>Macromolecular Sequencing and Synthesis. Selected Methods and Applications</i> , Schlesinger, D.H., ed., Alan R. Liss, Inc., New York, NY, pp. 127-149 (1988)
	AS	2	Hla, T., and Maciag, T., "An abundant transcript induced in differentiating human endothelial cells encodes a polypeptide with structural similarities to G-protein-coupled receptors," <i>J. Biol. Chem.</i> 265:9308-9313, American Society for Biochemistry and Molecular Biology, Inc. (1990)
	AT	2	Libert, F., et al., "Selective amplification and cloning of four new members of the G protein-coupled receptor family," <i>Science</i> 244:569-572, American Association for the Advancement of Science (1989)

EXAMINER

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1488.1150001/EKS/HCCAPPLICATION NO.  
10/067,800APPLICANT  
Roschke et al.FILING DATE  
February 8, 2002GROUP  
1642**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3	6268477	07/31/2001	Gray et al.			06/07/1996
	AB3	6287805	09/11/2001	Graham et al.			03/20/1998
	AC3	2002/0061834	05/23/2002	Rosen et al.			02/09/2001
	AD3	2002/0076745	06/20/2002	Li et al.			11/18/1998
	AE3	2002/0048786	04/25/2002	Rosen et al.			02/09/2001
	AF3	6511826	01/28/2003	Li et al.			02/11/2000
	AG3	2003/0023044	01/30/2003	Li et al.			09/03/2002
	AH3	2003/0166024	09/04/2003	Rosen et al.			05/01/2002
	AI3	6743594	06/01/2004	Li et al.			02/11/2000
	AJ3	6759519	07/06/2004	Li et al.			06/25/1999
	AK						

**FOREIGN PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

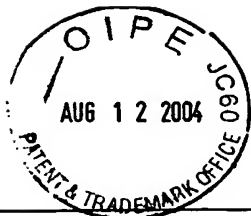
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>3</u>	Meyerhof, W., et al., "Molecular cloning of a novel putative G-protein coupled receptor expressed during rat spermiogenesis," <i>FEBS Letters</i> 284:155-160, Elsevier Science B.V. (1991)
	AS	<u>3</u>	Neote, K., et al., "Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor," <i>Cell</i> 72:415-425, Cell Press (1993)
	AT	<u>3</u>	Nomura, H., et al., "Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide receptors," <i>Int. Immunol.</i> 5:1239-1249, Oxford University Press (1993)

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EXAMINER INITIAL	AL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>4</u>	Ross, P.C., et al., "RTA, a candidate G protein-coupled receptor: cloning, sequencing, and tissue distribution," <i>Proc. Natl. Acad. Sci. USA</i> 87:3052-3056, National Academy of Science (1990)
	AS	<u>4</u>	Yamagami, S., et al., "cDNA Cloning and Functional Expression of a Human Monocyte Chemoattractant Protein 1 Receptor," <i>Biochem. Biophys. Res. Commun.</i> 202:1156-1162, Academic Press, Inc. (July 1994)
	AT	<u>4</u>	NCBI Entrez, Genbank Report, Accession No. M74240, Beckman, M.P., et al. (1991)

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	AL						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	NCBI Entrez, Genbank Report, Accession No. L10918, Gao, J.-L., et al. (1993)
	AS	<u>5</u>	NCBI Entrez, Genbank Report, Accession No. U03882, Charo, I.F., et al. (June 1994)
	AT	<u>5</u>	NCBI Entrez, Genbank Report, Accession No. D10925, Nomura, H., et al. (September 1994)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>6</u>	NCBI Entrez, Genbank Report, Accession No. L09230, Neote, K., et al. (December 1994)
	AS	<u>6</u>	NCBI Entrez, Genbank Report, Accession No. L24445, Prado, G.N., et al. (May 1994)
	AT	<u>6</u>	NCBI Entrez, Genbank Report, Accession No. U29677, Post, T.W., et al. (January 1996)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	7	NCBI Entrez, Genbank Report, Accession No. U28406, Gao, J.L., and Murphy, P.M. (February 1996)	
AS	7	NCBI Entrez, Genbank Report, Accession No. D29984, Yamagami, S., et al. (August 1994)	
AT	7	NCBI Entrez, Genbank Report, Accession No. U47036, Boring, L., et al. (March 1996)	

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AR	<u>8</u>	NCBI Entrez, Genbank Report, Accession No. U47035, Boring, L., et al. (March 1996)
AS	<u>8</u>	NCBI Entrez, Genbank Report, Accession No. U28694, Combadiere, C., et al. (June 1995)
AT	<u>8</u>	NCBI Entrez, Genbank Report, Accession No. U51717, Kurihara, T., and Bravo, R. (May 1996)

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1642**U.S. PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

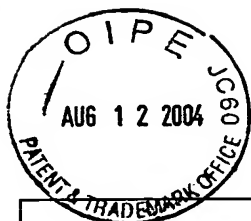
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>2</u>	NCBI Entrez, Genbank Report, Accession No. X94151, Meyer, A., et al. (July 1996)
	AS	<u>2</u>	NCBI Entrez, Genbank Report, Accession No. U54994, Raport, C.J., et al. (July 1996)
	AT	<u>2</u>	NCBI Entrez, Genbank Report, Accession No. X99393, Samson, M., et al. (September 1996)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1488.1150001/EKS/HCCAPPLICATION NO.  
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	NCBI Entrez, Genbank Report, Accession No. U56819, Heesen, M., et al. (September 1996)
	AS	<u>10</u>	NCBI Entrez, Genbank Report, Accession No. U49727, Ponath, P.D., et al. (August 1996)
	AT	<u>10</u>	NCBI Entrez, Genbank Report, Accession No. X91492, Samson, M., et al. (April 1996)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	NCBI Entrez, Genbank Report, Accession No. U51241, Daugherty, B.L. (August 1996)
	AS	<u>11</u>	NCBI Entrez, Genbank Report, Accession No. U57840, Combadiere, C., et al. (June 1996)
	AT	<u>11</u>	NCBI Entrez, Genbank Report, Accession No. U68565, Kuziel, W.A., and Maeda, N. (December 1996)

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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>12</u>	NCBI Entrez, Genbank Report, Accession No. U70988, Dunstan, C.A.N., et al. (October 1996)
	AS	<u>12</u>	Lee, N., and Kerlavage, A.R., "Molecular Biology of G-Protein-Coupled Receptors," <i>Drug News and Perspectives</i> 6:488-497, J.R. Prous S.A. (1993)
	AT	<u>12</u>	Oliveira, L., et al., "A common motif in G-protein-coupled seven transmembrane helix receptors," <i>J. Comput. Aided Mol. Des.</i> 7:649-658, Escom Science Publishers (1993)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Probst, W.C., et al., "Sequence Alignment of the G-Protein Coupled Receptor Superfamily," <i>DNA Cell Biol.</i> 11:1-20, Mary Ann Liebert, Inc. (1992)
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1642

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Roschke *et al.*

Appl. No. 10/067,800

Filed: February 8, 2002

For: **Human G-Protein Chemokine  
Receptor (CCR5) HDGNR10**

Confirmation No. 8493

Art Unit: 1642

Examiner: *To be assigned*

Atty. Docket: 1488.115000I/EKS/HCC

**First Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith, in connection with the above-captioned application.

Copies of documents **AT25**, **AR26**, **AS27** and **AT27** are included. Copies of all other documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/779,880, Rosen *et al.*, filed February 9, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language documents **AP1**, **AL4**, **AP4**, **AP8**, **AO10**, **AL14**, **AM14**, **AL16**, **AN16**, **AP16**, **AO18**, **AP19** and **AL20** cited on Form PTO 1449:

Document **AP1**, European Patent Publication No. EP 0 671 391, is in the German language. An English language abstract of document **AP1** is cited as document **AS21**.

Document **AL4**, European Patent Publication No. EP 0 612 723, is in the German language. An English language abstract of document **AL4** is cited as document **AR21**.

Document **AP4**, PCT Patent Publication No. WO 97/41230, is in the German language. An English language abstract of document **AP4** is cited as document **AS28**.

Document **AP8**, Japanese Patent Publication No. JP 10-179180, is in the Japanese language. An English language equivalent of document **AP8** is cited as document **AO7**.

Document **AO10**, PCT Patent Publication No. WO 98/55873, is in the French language. An English language abstract of document **AO10** is cited as document **AT28**.

Document **AL14**, French Patent Publication No. FR 2 771 423, is in the French language. Document **AM14**, PCT Patent Publication No. WO 99/27122, is in the French language. An English language abstract of documents **AL14** and **AM14** is cited as document **AR22**.

Document **AL16**, Japanese Patent Publication No. JP 11-243960, is in the Japanese language. An English language abstract of document **AL16** is cited as document **AS22**.

Document **AN16**, PCT Patent Publication No. WO 99/51751, is in the Japanese language. Document **AP16**, Japanese Patent Publication No. JP 11-292795, is in the Japanese language. An English language abstract of documents **AN16** and **AP16** is cited as document **AT22**.

Document **AO18**, European Patent Publication No. EP 0 979 655, is in the German language. An English language abstract of document **AO18** is cited as document **AT21**.

Document **AP19**, PCT Patent Publication No. WO 00/15785, is in the German language. An English language abstract of document **AP19** is cited as document **AR29**.

Document **AL20**, Russian Patent Publication No. RU 2126048, is in the Russian language. An English language abstract of document **AL20** is cited as document **AR23**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Roschke *et al.*  
Appl. No. 10/067,800

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency,  
or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Andrea Dokumage*  
*for # 43,703*

Helene C. Carlson  
Agent for Applicants  
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO1	WO 94/11504	05/26/1994	WIPO			Yes No
	AP1	EP 0 671 391	09/13/1995	Europe			Yes No X

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR		
	AS	<u>13</u>	Alkhatib, G., et al., "CC CKR5: A RANTES, MIP-1 $\alpha$ , MIP-1 $\beta$ Receptor as a Fusion Cofactor for Macrophage -Tropic HIV-1," <i>Science</i> 272:1955-1958, American Association for the Advancement of Science (June 1996).
	AT	<u>13</u>	Balter, M., "Elusive HIV-Suppressor Factors Found," <i>Science</i> 270:1560-1561, American Association for the Advancement of Science (December 1995).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL2	WO 96/22371	07/25/1996	WIPO			Yes No
	AM2	WO 96/23068	08/01/1996	WIPO			Yes No
	AN2	WO 96/38559	12/05/1996	WIPO			Yes No
	AO2	WO 96/39437	12/12/1996	WIPO			Yes No
	AP2	WO 97/00960	01/09/1997	WIPO			Yes No

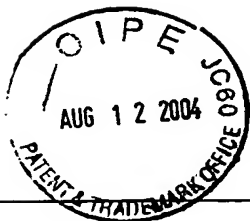
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	14	Balter, M., "A Second Coreceptor for HIV In Early Stages of Infection," <i>Science</i> 272:1740, American Association for the Advancement of Science (June 1996).
	AS	14	Choe, H., et al., "The $\beta$ -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," <i>Cell</i> 85:1135-1148, Cell Press (June 1996).
	AT	14	Cocchi, F., et al., "Identification of RANTES, MIP-1 $\alpha$ , and MIP-1 $\beta$ as the Major HIV-Suppressive Factors Produced by CD8+ T Cells," <i>Science</i> 270:1811-1815, American Association for the Advancement of Science (December 1995).

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	AL3	WO 97/19696	06/05/1997	WIPO			Yes No
	AM3	WO 97/21812	06/19/1997	WIPO			Yes No
	AN3	WO 97/22698	06/26/1997	WIPO			Yes No
	AO3	WO 97/25340	07/17/1997	WIPO			Yes No
	AP3	WO 97/28258	08/07/1997	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>15</u>	Cohen, J., "Likely HIV Cofactor Found," <i>Science</i> 272:809-810, American Association for the Advancement of Science (May 1996).
	AS	<u>15</u>	Combadiere, C., et al., "Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:16491-16494, American Society for Biochemistry and Molecular Biology (July 1995).
	AT	<u>15</u>	Combadiere, C., et al., "Monocyte Chemoattractant Protein-3 Is a Functional Ligand for CC Chemokine Receptors 1 and 2," <i>J. Biol. Chem.</i> 270:29671-29675, American Society for Biochemistry and Molecular Biology (December 1995).

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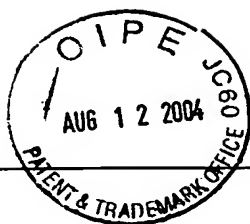
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL4	EP 0 612 723	08/27/1997	Europe			Yes X No
	AM4	WO 97/32019	09/04/1997	WIPO			Yes No
	AN4	WO 97/35881	10/02/1997	WIPO			Yes No
	AO4	WO 97/37005	10/09/1997	WIPO			Yes No
	AP4	WO 97/41230	11/06/1997	WIPO			Yes X No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>16</u>	Combadiere, C., et al., "Additions and Corrections to: Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:30235, The American Society for Biochemistry and Molecular Biology (December 1995).
	AS	<u>16</u>	Combadiere, C., et al., "Cloning and functional expression of CC CKR5, a human monocyte CC chemokine receptor selective for MIP-1 $\alpha$ , MIP-1 $\beta$ , and RANTES," <i>J. Leukocyte Biol.</i> 60:147-152, The Society for Leukocyte Biology (July 1996).
	AT	<u>16</u>	Deng, H., et al., "Identification of a major co-receptor for primary isolates of HIV-1," <i>Nature</i> 381:661-666, Macmillan Publishing Group (June 1996).

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	AL5	WO 97/41225	11/06/1997	WIPO			Yes No
	AM5	WO 97/44055	11/27/1997	WIPO			Yes No
	AN5	WO 97/45543	12/04/1997	WIPO			Yes No
	AO5	WO 97/46697	12/11/1997	WIPO			Yes No
	AP5	WO 97/47318	12/18/1997	WIPO			Yes No

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	AR	<u>17</u>	Dimitrov, D.S., "Fusin - a place for HIV-1 and T4 cells to meet," <i>Nature Med.</i> 2:640-641, Nature Publishing Group (June 1996).
	AS	<u>17</u>	Doranz, B.J., et al., "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the $\beta$ -Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors," <i>Cell</i> 85:1149-1158, Cell Press (June 1996).
	AT	<u>17</u>	Dragic, T., et al., "HIV-1 entry into CD4+ cells is mediated by the chemokine receptor CC-CKR-5," <i>Nature</i> 381:667-673, Macmillan Publishing Group (June 1996).

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	AL6	WO 97/47319	12/18/1997	WIPO			Yes No
	AM6	WO 97/49424	12/31/1997	WIPO			Yes No
	AN6	WO 98/00535	01/08/1998	WIPO			Yes No
	AO6	WO 98/05798	02/12/1998	WIPO			Yes No
	AP6	WO 98/14480	04/09/1998	WIPO			Yes No

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AR	18	Feng, Y., et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," <i>Science</i> 272:872-877, American Association for the Advancement of Science (May 1996).	
AS	18	Gura, T., "Chemokines Take Center Stage in Inflammatory Ills," <i>Science</i> 272:954-956, American Association for the Advancement of Science (May 1996).	
AT	18	Marshall, E., "HIV Experts vs. Sequencers in Patent Race," <i>Science</i> 275:1263, American Association for the Advancement of Science (February 1997).	

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	AM7	WO 98/17308	04/30/1998	WIPO			Yes No
	AN7	WO 98/18826	05/07/1998	WIPO			Yes No
	AO7	EP 0 834 564	05/13/1998	Europe			Yes No
	AP7	WO 98/20166	05/14/1998	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	19	Murphy, P.M., "The Molecular Biology of Leukocyte Chemoattractant Receptors," <i>Annu. Rev. Immunol.</i> 12:593-633, Annual Reviews, Inc. (1994).
	AS	19	Raport, C.J., et al., "Molecular Cloning and Functional Characterization of a Novel Human CC Chemokine Receptor (CCR5) for RANTES, MIP-1 $\beta$ , and MIP-1 $\alpha$ ," <i>J. Biol. Chem.</i> 271:17161-17166, American Society for Biochemistry and Molecular Biology (July 1996).
	AT	19	Samson, M., et al., "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Chem. Abstracts</i> 124:993, Abstract No. 258056e, The American Chemical Society (May 1996).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL8	WO 98/25604	06/18/1998	WIPO			Yes No
	AM8	WO 98/25605	06/18/1998	WIPO			Yes No
	AN8	WO 98/25617	06/18/1998	WIPO			Yes No
	AO8	WO 98/27815	07/02/1998	WIPO			Yes No
	AP8	JP 10-179180	07/07/1998	Japan			Yes X No

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>20</u>	Samson, M., et al., "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Biochemistry</i> 35:3362-3367, American Chemical Society (March 1996).
	AS	<u>20</u>	Travis, J., "Multiple doors for HIV to enter cells," <i>Science News</i> 149:390, Science Service (June 1996).
	AT	<u>20</u>	Weiss, R.A., and Clapham, P.R., "Hot fusion of HIV," <i>Nature</i> 381:647-648, Macmillan Publishing Group (June 1996).

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	AL9	WO 98/30218	07/16/1998	WIPO			Yes No
	AM9	WO 98/31364	07/23/1998	WIPO			Yes No
	AN9	WO 98/34945	08/13/1998	WIPO			Yes No
	AO9	WO 98/38212	09/03/1998	WIPO			Yes No
	AP9	WO 98/42354	10/01/1998	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

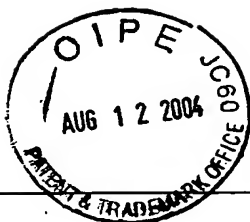
	AR	<u>21</u>	English language abstract of EP 0 612 723 A1, Derwent World Patents Index (Dialog File 351), WPI Accession No. 1994-265874/199433.
	AS	<u>21</u>	English language abstract of EP 0 671 391 A1, Derwent World Patents Index (Dialog File 351), WPI Accession No. 1995-312725/199541.
	AT	<u>21</u>	English language abstract of EP 0 979 655, Derwent World Patents Index (Dialog File 351), WPI Accession No. 2000-197082/200018.

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	AL10	WO 98/44158	10/08/1998	WIPO			Yes No
	AM10	WO 98/51705	11/19/1998	WIPO			Yes No
	AN10	WO 98/54317	12/03/1998	WIPO			Yes No
	AO10	WO 98/55873	12/10/1998	WIPO			Yes X No
	AP10	WO 98/56421	12/17/1998	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>22</u>	English language abstract of FR 2 771 423 A1, Derwent World Patents Index (Dialog File 351), WPI Accession No. 12523594.
	AS	<u>22</u>	English language abstract of JP 11-243960 A, Derwent World Patents Index (Dialog File 351), WPI Accession No. 12797479.
	AT	<u>22</u>	English language abstract of JP 11-292795 A, Derwent World Patents Index (Dialog File 351), WPI Accession No. 1999-620207/199953.

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	AL11	WO 98/58536	12/30/1998	WIPO			Yes No
	AM11	WO 98/58966	12/30/1998	WIPO			Yes No
	AN11	WO 99/01127	01/14/1999	WIPO			Yes No
	AO11	WO 99/04794	02/04/1999	WIPO			Yes No
	AP11	WO 99/06561	02/11/1999	WIPO			Yes No

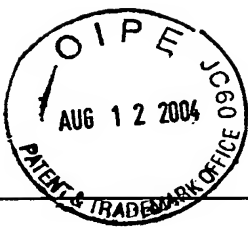
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>23</u>	English language abstract of RU 2 126 048, Derwent World Patents Index (Dialog File 351), WPI Accession No. 13109249.
	AS	<u>23</u>	Brühl, H., et al., "Depletion of CCR5-Expressing Cells with Bispecific Antibodies and Chemokine Toxins: A New Strategy in the Treatment of Chronic Inflammatory Diseases and HIV," <i>J. Immunol.</i> 166:2420-2426, The American Association of Immunologists (February 2001).
	AT	<u>23</u>	Gomez-Reino, J.J., et al., "Association of Rheumatoid Arthritis with a Functional Chemokine Receptor, CCR5," <i>Arthritis Rheum.</i> 42:989-992, American College of Rheumatology (May 1999).

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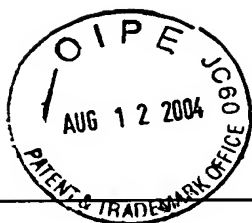
FORM PTO-1449  <b>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">ATTY. DOCKET NO. 1488.115000I/EKS/HCC</td> <td style="width: 40%;">APPLICATION NO. 10/067,800</td> </tr> <tr> <td colspan="2">APPLICANT Roschke et al.</td> </tr> <tr> <td>FILING DATE February 8, 2002</td> <td>GROUP 1642</td> </tr> </table>	ATTY. DOCKET NO. 1488.115000I/EKS/HCC	APPLICATION NO. 10/067,800	APPLICANT Roschke et al.		FILING DATE February 8, 2002	GROUP 1642
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL12	WO 99/08703	02/25/1999	WIPO			Yes No
	AM12	WO 99/09984	03/04/1999	WIPO			Yes No
	AN12	WO 99/12416	03/18/1999	WIPO			Yes No
	AO12	WO 99/13112	03/18/1999	WIPO			Yes No
	AP12	WO 99/14378	03/25/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	24		Jobling, M.G., and Holmes, R.K., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Mol. Microbiol.</i> 5:1755-1767, Blackwell Science (1991).
AS	24		Lerner, R.A., "Tapping the immunological repertoire to produce antibodies of predetermined specificity," <i>Nature</i> 299:592-596, Macmillan Journals Ltd (1982).
AT	24		Mack, M., et al., "Predominance of Mononuclear Cells Expressing the Chemokine Receptor CCR5 in Synovial Effusions of Patients with Different Forms of Arthritis," <i>Arthritis Rheum.</i> 42:981-988, American College of Rheumatology (May 1999).

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	AL13	WO 99/17773	04/15/1999	WIPO			Yes No
	AM13	WO 99/23107	05/14/1999	WIPO			Yes No
	AN13	WO 99/23253	05/14/1999	WIPO			Yes No
	AO13	WO 99/24065	05/20/1999	WIPO			Yes No
	AP13	WO 99/24553	05/20/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>25</u>	Murdoch, C., and Finn, A., "Chemokine receptors and their role in inflammation and infectious diseases," Blood 95:3032-3043, The American Society of Hematology (May 2000).
	AS	<u>25</u>	Skolnick, J., and Petrow, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," TIBTECH 18:34-39, Elsevier Science Ltd (January 2000).
	AT	<u>25</u>	Suzuki, N., et al., "Selective accumulation of CCR5 <sup>+</sup> T lymphocytes into inflamed joints of rheumatoid arthritis," Intl. Immunol. 11:553-559, The Japanese Society for Immunology and Oxford University Press (April 1999).

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	AL14	FR 2 771 423	05/28/1999	France			Yes X No
	AM14	WO 99/27122	06/03/1999	WIPO			Yes X No
	AN14	WO 99/27939	06/10/1999	WIPO			Yes No
	AO14	WO 99/28474	06/10/1999	WIPO			Yes No
	AP14	WO 99/32100	07/01/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	<u>AR</u>	<u>26</u>	Zang, Y.C.Q., et al., "Aberrant T cell migration toward RANTES and MIP-1 $\alpha$ in patients with multiple sclerosis: Overexpression of chemokine receptor CCR5," <i>Brain</i> 123:1874-1882, Oxford University Press (September 2000).
	<u>AS</u>	<u>26</u>	"Myocardial Infarction," in The Merck Manual of Diagnosis and Therapy, Seventeenth Edition, Centennial Edition, Section 16, Chapter 202, Beers, M.H., and Berkow, R., eds., Merck & Co., Inc. (1999) < <a href="http://www.merck.com/pubs/Manual/section16/chapter202/202d.htm">http://www.merck.com/pubs/Manual/section16/chapter202/202d.htm</a> > (visited August 2001).
	<u>AT</u>	<u>26</u>	"CCR-5 Antibodies-Human Chemokine Receptor Antibodies," Aves Labs, Inc., < <a href="http://www.aveslab.com/ccr5.html">http://www.aveslab.com/ccr5.html</a> >, (visited August 2001).

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	AL15	WO 99/32138	07/01/1999	WIPO			Yes No
	AM15	WO 99/33989	07/08/1999	WIPO			Yes No
	AN15	WO 99/36518	07/22/1999	WIPO			Yes No
	AO15	WO 99/38514	08/05/1999	WIPO			Yes No
	AP15	WO 99/43711	09/02/1999	WIPO			Yes No

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	AR	27	"Euroscreen Available Products: Mammalian recombinant cell lines," Euroscreen s.a. (1999), < <a href="http://www.euroscreen.be/products/cell_lines.html">http://www.euroscreen.be/products/cell_lines.html</a> >, (visited August 2001).
	AS	27	"Specification Sheet H-1001," Aves Labs, Inc., < <a href="http://www.aveslab.com/specs/h1001.html">http://www.aveslab.com/specs/h1001.html</a> >, (visited August 2001).
	AT	27	"CCR-5 (CCR5) Chemokine Receptor antibodies available through Research Diagnostics Inc.," Research Diagnostics Inc., < <a href="http://www.researchd.com/cytokines/ccr5ab.htm">http://www.researchd.com/cytokines/ccr5ab.htm</a> >, (visited August 2001).

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	AM16	WO 99/46372	09/16/1999	WIPO			Yes No
	AN16	WO 99/51751	10/14/1999	WIPO			Yes X No
	AO16	WO 99/53033	10/21/1999	WIPO			Yes No
	AP16	JP 11-292795	10/26/1999	Japan			Yes X No

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>28</u>	GenBank Report, Accession No. AF019772, submitted by Doranz, B.J. et al. (September 1997).
	AS	<u>28</u>	English language abstract of WO 97/41230, Derwent World Patents Index (Dialog File 351), WPI Accession No. 11573252.
	AT	<u>28</u>	English language abstract of WO 98/55873, Derwent World Patents Index (Dialog File 351), WPI Accession No. 12336308.

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	AM17	WO 99/67429	12/29/1999	WIPO			Yes No
	AN17	WO 99/66944	12/29/1999	WIPO			Yes No
	AO17	WO 00/02045	01/13/2000	WIPO			Yes No
	AP17	WO 00/05265	02/03/2000	WIPO			Yes No

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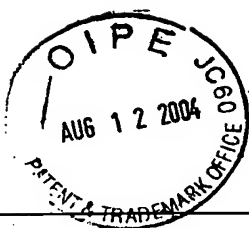
	AR	29	English language abstract of WO 00/15785, Derwent World Patents Index (Dialog File 351), WPI Accession No. 13099553.
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	AM18	WO 00/06146	02/10/2000	WIPO			Yes No
	AN18	WO 00/06153	02/10/2000	WIPO			Yes No
	AO18	EP 0 979 655	02/16/2000	Europe			Yes X No
	AP18	WO 00/08043	02/17/2000	WIPO			Yes No

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	AM19	WO 00/10965	03/02/2000	WIPO			Yes No
	AN19	WO 00/14220	03/16/2000	WIPO			Yes No
	AO19	WO 00/15663	03/23/2000	WIPO			Yes No
	AP19	WO 00/15785	03/23/2000	WIPO			Yes X No

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL20	RU 2126048	02/10/1999	Russia			Yes X No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
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EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Roschke *et al.*

Appl. No. 10/067,800

Filed: February 8, 2002

For: **Human G-Protein Chemokine  
Receptor (CCR5) HDGNR10**

Confirmation No. 8493

Art Unit: 1642

Examiner: *To be assigned*

Atty. Docket: 1488.115000I/EKS/HCC

**Second Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed herewith, in connection with the above-captioned application.

Copies of documents **AT31**, **AR32** and **AS32** are included. Copies of all other documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/779,880, Rosen *et al.*, filed February 9, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently

available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Andrea Jo Kamagel* # 43,703  
*for*

Helene C. Carlson  
Agent for Applicants  
Registration No. 47,473

Date: 8/12/04  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
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FORM PTO-1449

**SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1488.115000I/EKS/HCCAPPLICATION NO.  
10/067,800APPLICANT  
Roschke et al.FILING DATE  
February 8, 2002GROUP  
1642**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR		
	AS	29	Bendig, M.M., "Humanization of Rodent Monoclonal Antibodies by CDR Grafting," <i>Methods</i> 8:83-93, Academic Press, Inc. (October 1995)
	AT	29	Cunningham, M.W., et al., "Cytotoxic and Viral Neutralizing Antibodies Crossreact With Streptococcal M Protein, Enteroviruses, and Human Cardiac Myosin," <i>Proc. Natl. Acad. Sci. USA</i> 89:1320-1324, National Academy of Sciences (February 1992)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449  
SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1488.1150001/EKS/HCC

APPLICATION NO.  
10/067,800

APPLICANT  
Roschke et al.

FILING DATE  
February 8, 2002

GROUP  
1642

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>30</u>	Horuk, R., "Molecular Properties of the Chemokine Receptor Family," <i>Trends in Pharmacol. Sci.</i> 15:159-165, Elsevier Science (May 1994)
	AS	<u>30</u>	Lee, B., et al., "Epitope Mapping of CCR5 Reveals Multiple Conformational States and Distinct but Overlapping Structures Involved in Chemokine and Coreceptor Function," <i>J. Biol. Chem.</i> 274:9617-9626, American Society for Biochemistry and Molecular Biology (April 1999)
	AT	<u>30</u>	Olson, W., et al., "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5," <i>J. Virol.</i> 73:4145-4155, American Society for Microbiology (May 1999)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.115000I/EKS/HCC	APPLICATION NO. 10/067,800
	APPLICANT Roschke et al.	
	FILING DATE February 8, 2002	GROUP 1642

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>31</u>	Osbourne, J.K., et al., "Directed Selection of MIP-1 $\alpha$ Neutralizing CCR5 Antibodies from a Phage Display Human Antibody Library," <i>Nature Biotechnol.</i> 16:778-781, Nature Publishing Group (August 1998)	
AS	<u>31</u>	Schall, T.J., "Biology of the RANTES/SIS Cytokine Family," <i>Cytokine</i> 3:165-183, Academic Press, Inc. (May 1991)	
AT	<u>31</u>	Wu, L., et al., "Interaction of Chemokine Receptor CCR5 with its Ligands: Multiple Domains for HIV-1 gp 120 Binding and a Single Domain for Chemokine Binding," <i>J. Exp. Med.</i> 186:1373-1381, The Rockefeller University Press (October 1997)	

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	





FORM PTO-1449

**SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1488.115000I/EKS/HCCAPPLICATION NO.  
10/067,800APPLICANT  
Roschke et al.FILING DATE  
February 8, 2002GROUP  
1642**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	32	Leong, S.R., et al., "Complete Mutagenesis of the Extracellular Domain of Interleukin-8 (IL-8) Type A Receptor Identifies Charged Residues Mediating IL-8 Binding and Signal Transduction," <i>J. Biol. Chem.</i> 269:19343-19348, American Society for Biochemistry and Molecular Biology (1994)
	AS	32	Bowie, J.U., et al. "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990)
	AT		

EXAMINER

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Roschke *et al.*

Appl. No. 10/067,800

Filed: February 8, 2002

For: **Human G-Protein Chemokine  
Receptor (CCR5) HDGNR10**

Confirmation No. 8493

Art Unit: 1642

Examiner: *To be assigned*

Atty. Docket: 1488.115000I/EKS/HCC

**Third Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

The numbering on this Third Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Second Supplemental Information Disclosure Statement filed herewith, in connection with the above-captioned application.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

U.S. Patent Application No. 10/127,764, Li *et al.*, filed April 23, 2002 and submitted herewith as document **AR34**; and

U.S. Patent Application No. 10/791,905, Li *et al.*, filed March 4, 2004 and submitted herewith as document **AS34**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

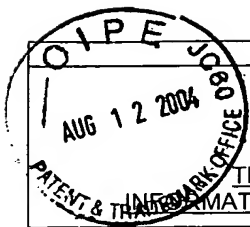
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Andrea Bokunage*  
*for #43,703*

Helene C. Carlson  
Agent for Applicants  
Registration No. 47,473

Date: 8/12/04  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
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FORM PTO-1449

THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1488.1150001/EKS/HCCAPPLICATION NO.  
10/067,800FIRST NAMED INVENTOR  
Roschke *et al.*FILING DATE  
February 8, 2002ART UNIT  
1642

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM20	WO 92/01810 A1	02/06/1992	WIPO			Yes No
	AN20	WO 01/58916 A2	08/16/2001	WIPO			Yes No
	AO20	WO 02/064612 A2	08/22/2002	WIPO			Yes No
	AP						Yes No

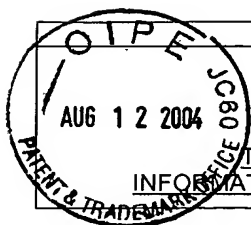
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	32	Burbach, J.P.H., and Meijer, O.C., "The structure of neuropeptide receptors," <i>Eur. J. Pharmacol.</i> 227:1-18, Elsevier Science Publishers B.V. (1992)

EXAMINER

DATE CONSIDERED

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

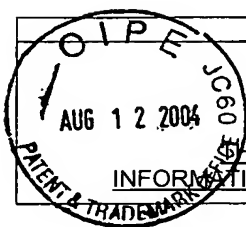
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>33</u>	Greenwood, M.T., <i>et al.</i> , "Ligand Binding Pocket of the Human Somatostatin Receptor 5: Mutational Analysis of the Extracellular Domains," <i>Mol. Pharmacol.</i> 52:807-814, The American Society for Pharmacology and Experimental Therapeutics (1997)
	AS	<u>33</u>	Larhammar, D., <i>et al.</i> , "The Receptor Revolution - Multiplicity of G-Protein-Coupled Receptors," <i>Drug Design and Discovery</i> 9:179-188, Harwood Academic Publishers GmbH (1993)
	AT	<u>33</u>	GenBank ref file NP_000570.1 (chemokine receptor 5 [Homo sapiens]) BLAST Homology Search Alignment

EXAMINER

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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>34</u>	Non-Provisional United States Patent Application No. 10/127,764, Li, <i>et al.</i> , filed April 23, 2002 (NOT PUBLISHED)
	AS	<u>34</u>	Non-Provisional United States Patent Application No. 10/791,905, Li, <i>et al.</i> , filed March 4, 2004 (NOT PUBLISHED)
	AT	<u>34</u>	Promega, "3. Nucleic Acids: Primers and Linkers," in 1993/94 <i>Catalog</i> , Promega Corporation (1993)

EXAMINER

DATE CONSIDERED

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